Homework 3

CMIS 141 James Smutek

Screen capture of my program compiling and running my 3 test cases in an IDE. The pane on the right is the output, center pane is my test class, left pane the project file browser.

```
▲ IntelliJ IDEA File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
                                                      grain cmis141 [~/Code/school/cmis141] - .../week_6/src/TestHeadPhone.java [week_6]
m cmis141 > m week_6 > src >  TestHeadPhone >
🖿 Project → 🄘 🧩 🗢
                                                                                    ▶ ↑ /Library/Java/JavaVirtualMachines/jdk-18.0.2.jdk/Contents/Home/bin/java "--
 cmis141 ~/Code/school/cmis
                                                                                    Default object toString() = HeadPhone{volume=2, pluggedIn=false, manufactur
 > nout
                                                                                   *** Setters ***

Setters complete:
                                                                                    HeadPhone{volume=1, pluggedIn=true, manufacturer='Audio Technica', headPhon
                                                                                    *** Getters ***
                              import java.awt.Color;
 > week_2
                                                                                         getVolume() = 1
 > De week 3
                                                                                          getHeadPhoneColor() = java.awt.Color[r=255,g=0,b=0]
                                                                                          getHeadPhoneModel() = ATH-M50X
                               public static void main(String[] args) {
 > m week_5
                                                                                           getManufacturer() = Audio Technica
                                                                                          isPluggedIn() = true
 ∨ □ week 6
                                  HeadPhone HeadPhoneOne = new HeadPhone();
                                                                                           *** changeVolume() ***
                                  HeadPhone HeadPhoneTwo = new HeadPhone();
                                                                                          Changed volume:
                                  HeadPhone HeadPhoneThree = new HeadPhone();
                                                                                           HeadPhone{volume=3, pluggedIn=true, manufacturer='Audio Technica', headPhon
     > = examples
      © Examples
                                                                                           Default object toString() = HeadPhone{volume=2, pluggedIn=false, manufactur
                                                                                           *** Setters ***
                                                                                           Setters complete:

    HeadPhone.class

                                                                                           HeadPhone{volume=3, pluggedIn=false, manufacturer='Sennheiser', headPhoneCo
      TestHeadPhone
                                                                                           *** Getters ***
                                                                                           getVolume() = 3
                                                                                           getHeadPhoneColor() = java.awt.Color[r=0,g=0,b=0]
                                 System.out.println("*** Setters ***");
                                                                                           getHeadPhoneModel() = HD660 S Apogee
                                  HeadPhoneOne.setVolume(1);
                                                                                           getManufacturer() = Sennheiser
                                                                                           isPluggedIn() = false
                                  HeadPhoneOne.setHeadPhoneColor(Color.RED);
                                                                                           *** changeVolume() ***
                                  HeadPhoneOne.setHeadPhoneModel("ATH-M50X"):
   © LICENSE.md
                                                                                           Changed volume:
                                  HeadPhoneOne.setManufacturer("Audio Technica");
                                                                                           HeadPhone{volume=2, pluggedIn=false, manufacturer='Sennheiser', headPhoneCo
                                  HeadPhoneOne.setPluggedIn(true);
                                                                                           ****** TEST 3 **
                                                                                           Default object toString() = HeadPhone{volume=2, pluggedIn=false, manufactur
 Scratches and Consoles
                                                                                           *** Setters ***
                                                                                           Setters complete:
                                  System.out.println("*** Getters ***");
                                                                                           HeadPhone{volume=2, pluggedIn=true, manufacturer='Audeze', headPhoneColor=j
                                  System.out.println("getVolume() = " + HeadPhoneOr
                                                                                           *** Getters ***
                                                                                           getVolume() = 2
                                  System.out.println("getHeadPhoneColor() = " + He
                                                                                           getHeadPhoneColor() = java.awt.Color[r=0,g=0,b=255]
                                  System.out.println("getHeadPhoneModel() = " + Hea
                                                                                           getHeadPhoneModel() = LCD-4
                                  System.out.println("getManufacturer() = " + HeadF
                                                                                           getManufacturer() = Audeze
                                  System.out.println("isPluggedIn() = " + HeadPhone
                                                                                           isPluggedIn() = true
                                                                                           Changed volume:
                                  System.out.println("*** changeVolume() ***");
                                                                                           HeadPhone{volume=1, pluggedIn=true, manufacturer='Audeze', headPhoneColor='
                                  HeadPhoneOne.changeVolume( newV
                                                                                           Process finished with exit code \theta
```

Test tables showing the input, expected and actual output, and pass/fail status for my 3 test cases.

Input	Expected Output	Actual Output	Pass
volume=1, pluggedIn=true,	******** TEST 1 ******** Default object toString() =	********* TEST 1 ******** Default object toString() = HeadPhone{volume=2,	Pass

Manufacturer= 'Audio Technica' headPhoneColor= Black headPhoneModel= ATH-M50X changeVolume=3	HeadPhone{volume= 2, pluggedIn=false, manufacturer=", headPhoneColor=jav a.awt.Color[r=0,g=0,b =0], headPhoneModel="} *** Setters *** Setters complete: HeadPhone{volume= 1, pluggedIn=true, manufacturer='Audio Technica', headPhoneColor=jav a.awt.Color[r=255,g= 0,b=0], headPhoneModel='A TH-M50X'} *** Getters *** getVolume() = 1 getHeadPhoneColor() = java.awt.Color[r=255, g=0,b=0] getHeadPhoneModel()) = ATH-M50X getManufacturer() = Audio Technica isPluggedIn() = true *** changeVolume() *** Changed volume: HeadPhone{volume= 3, pluggedIn=true, manufacturer='Audio Technica', headPhoneColor=jav a.awt.Color[r=255,g= 0,b=0], headPhoneModel='A TH-M50X'}	pluggedIn=false, manufacturer=", headPhoneColor=java.a wt.Color[r=0,g=0,b=0], headPhoneModel="} **** Setters *** Setters complete: HeadPhone{volume=1, pluggedIn=true, manufacturer='Audio Technica', headPhoneColor=java.a wt.Color[r=255,g=0,b=0], headPhoneModel='ATH-M50X'} **** Getters *** getVolume() = 1 getHeadPhoneColor() = java.awt.Color[r=255,g= 0,b=0] getHeadPhoneModel() = ATH-M50X getManufacturer() = Audio Technica isPluggedIn() = true **** changeVolume() *** Changed volume: HeadPhone{volume=3, pluggedIn=true, manufacturer='Audio Technica', headPhoneColor=java.a wt.Color[r=255,g=0,b=0], headPhoneModel='ATH-M50X'}	
volume=3, pluggedIn=false,	********** TEST 2 ******** Default object	******** TEST 2 *******	Pass

Sette Head 3, plu manu eiser' head a.awf =0], head D660 *** G getVo getHe = java.a 0,b=0 getHe) = H getM. Senn isPlug *** ch *** Chan Head 2, plu manu eiser' head a.awf =0], head D660 **** Chan Head a.awf =0], head D660 ******	etters *** ers complete: dPhone{volume= uggedIn=false, ufacturer='Sennh d', IPhoneColor=jav t.Color[r=0,g=0,b] IPhoneModel='H D S Apogee'} Setters *** olume() = 3 eadPhoneColor() awt.Color[r=0,g=0] eadPhoneModel(ID660 S Apogee Ianufacturer() = nheiser uggedIn() = false hangeVolume() mged volume: dPhone{volume= uggedIn=false, ufacturer='Sennh d', IPhoneColor=jav t.Color[r=0,g=0,b] IPhoneModel='H D S Apogee'} **** TEST 3	*** Setters *** Setters complete: HeadPhone{volume=3, pluggedIn=false, manufacturer='Sennheis er', headPhoneColor=java.a wt.Color[r=0,g=0,b=0], headPhoneModel='HD6 60 S Apogee'} *** Getters *** getVolume() = 3 getHeadPhoneColor() = java.awt.Color[r=0,g=0,b=0] getHeadPhoneModel() = HD660 S Apogee getManufacturer() = Sennheiser isPluggedIn() = false *** changeVolume() *** Changed volume: HeadPhone{volume=2, pluggedIn=false, manufacturer='Sennheis er', headPhoneColor=java.a wt.Color[r=0,g=0,b=0], headPhoneModel='HD6 60 S Apogee'} **********************************	Pass
*****	****		

Default object Default object toString() pluggedIn=true, toString() = = HeadPhone{volume=2, Manufacturer= HeadPhone{volume= pluggedIn=false, 2, pluggedIn=false, 'Audeze' manufacturer=", manufacturer=", headPhoneColor=java.a headPhoneColor= headPhoneColor=jav wt.Color[r=0,g=0,b=0], blue a.awt.Color[r=0,g=0,b headPhoneModel="} =01, *** Setters *** headPhoneModel= headPhoneModel="} Setters complete: 'LCD-4' *** Setters *** Setters complete: HeadPhone{volume=2, changeVolume=1 HeadPhone{volume= pluggedIn=true, 2, pluggedIn=true, manufacturer='Audeze', manufacturer='Audez headPhoneColor=java.a wt.Color[r=0,g=0,b=255], headPhoneColor=iav headPhoneModel='LCDa.awt.Color[r=0,g=0,b 4'} =255], *** Getters *** headPhoneModel='L getVolume() = 2CD-4'} *** Getters *** getHeadPhoneColor() = getVolume() = 2 java.awt.Color[r=0,g=0,b getHeadPhoneColor() =255] getHeadPhoneModel() = java.awt.Color[r=0,g= LCD-4 0,b=255getManufacturer() = getHeadPhoneModel(Audeze) = LCD-4isPluggedIn() = true getManufacturer() = *** changeVolume() *** Audeze isPluggedIn() = true Changed volume: *** changeVolume() HeadPhone{volume=1, pluggedIn=true, Changed volume: manufacturer='Audeze', HeadPhone{volume= headPhoneColor=java.a 1, pluggedIn=true, wt.Color[r=0,g=0,b=255], manufacturer='Audez headPhoneModel='LCDe', 4'} headPhoneColor=jav a.awt.Color[r=0,g=0,b =2551. headPhoneModel='L CD-4'}